Vales Point Power Station Monthly Environmental Data Summary

LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	May 2024	
ADDRESS	VALES ROAD, MANNERING PARK NSW	

POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
May-24	Chlorine	(mg/m3)	Every 6 months							20	No	
May-24	Fluorine	(mg/m3)	Every 6 months							30	No	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
May-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
May-24	Nitrogen Oxides	(mg/m3)	Continuous	98.2%	May-24	440	647	725	850	980	No	
May-24	Solid Particles	(mg/m3)	Quarterly							50	No	
May-24	Sulfur dioxide	(mg/m3)	Continuous	98.2%	May-24	624	914	1221	1400	1700	No	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	No	

POINT 3 Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months							0.2	No	
May-24	Chlorine	(mg/m3)	Every 6 months							20	No	
May-24	Fluorine	(mg/m3)	Every 6 months							30	No	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months							50	No	
May-24	Mercury	(mg/m3)	Every 6 months							0.05	No	
May-24	Nitrogen Oxides	(mg/m3)	Continuous	91.5%	May-24	256	644	744	850	980	No	
May-24	Solid Particles	(mg/m3)	Quarterly							50	No	
May-24	Sulfur dioxide	(mg/m3)	Continuous	91.4%	May-24	546	871	1081	1400	1700	No	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100	No	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75	No	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10	No	

POINT 4 Boiler number 5 exhaust - duct A marked and shown as EPA ID 4 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Carbon dioxide	(%)	Every 6 months								N/A	
May-24	Chlorine	(mg/m3)	Every 6 months								N/A	
May-24	Fluorine	(mg/m3)	Every 6 months								N/A	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 5 **Boiler number 5 exhaust - duct B marked and shown as EPA ID 5 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 6 **Boiler number 5 exhaust - duct C marked and shown as EPA ID 6 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Carbon dioxide	(%)	Every 6 months								N/A	
May-24	Chlorine	(mg/m3)	Every 6 months								N/A	
May-24	Fluorine	(mg/m3)	Every 6 months								N/A	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 7 **Boiler number 5 exhaust - duct D marked and shown as EPA ID 7 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 8 **Boiler number 6 exhaust - duct A marked and shown as EPA ID 8 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Carbon dioxide	(%)	Every 6 months								N/A	
May-24	Chlorine	(mg/m3)	Every 6 months								N/A	
May-24	Fluorine	(mg/m3)	Every 6 months								N/A	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 9 **Boiler number 6 exhaust - duct B marked and shown as EPA ID 9 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 10 **Boiler number 6 exhaust - duct C marked and shown as EPA ID 10 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Carbon dioxide	(%)	Every 6 months								N/A	
May-24	Chlorine	(mg/m3)	Every 6 months								N/A	
May-24	Fluorine	(mg/m3)	Every 6 months								N/A	
May-24	Hydrogen chloride	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	
May-24	VOC's as n-propane equivalent	(mg/m3)	Every 6 months								N/A	

POINT 11 **Boiler number 6 exhaust - duct D marked and shown as EPA ID 11 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Cadmium	(mg/m3)	Every 6 months								N/A	
May-24	Mercury	(mg/m3)	Every 6 months								N/A	
May-24	Solid Particles	(mg/m3)	Quarterly								N/A	
May-24	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months								N/A	

POINT 12 **Boiler number 5 combined exhaust - duct A and B (points 4 and 5) marked and shown as EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Nitrogen Oxides	(mg/m3)	Continuous	97.0%	May-24	419	659	769			N/A	
May-24	Sulfur dioxide	(mg/m3)	Continuous	97.0%	May-24	456	877	1184			N/A	

POINT 13 **Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shownas EPA ID 13 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Nitrogen Oxides	(mg/m3)	Continuous	99.4%	May-24	434	635	747			N/A	
May-24	Sulfur dioxide	(mg/m3)	Continuous	99.4%	May-24	666	951	1260			N/A	

POINT 14 **Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shownas EPA ID 14 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Nitrogen Oxides	(mg/m3)	Continuous	84.1%	May-24	268	670	785			N/A	
May-24	Sulfur dioxide	(mg/m3)	Continuous	83.9%	May-24	578	902	1143			N/A	

POINT 15 **Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shownas EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Nitrogen Oxides	(mg/m3)	Continuous	98.9%	May-24	244	619	772			N/A	
May-24	Sulfur dioxide	(mg/m3)	Continuous	98.9%	May-24	374	841	1172			N/A	

POINT 22 **Discharge of cooling water from the cooling water outlet canal to Wyee Bay marked and shown as EPA ID 22 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	98.5 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceed 100% Limit (yes/no)	Comments
May-24	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	7/05/2024	0	0	0		**0.2**	**No**	
May-24	Copper	(mg/L)	Monthly during discharge	1	7/05/2024	0.004	0.004	0.004		**0.005**	**No**	
May-24	Iron	(mg/L)	Monthly during discharge	1	7/05/2024	0.26	0.26	0.26		**0.3**	**No**	
May-24	Oil and Grease	Visible	Continuous during discharge	100%	May-24	NIL	NIL	NIL				
May-24	Selenium	(mg/L)	Monthly during discharge	1	7/05/2024	<0.002	<0.002	<0.002		**0.005**	**No**	
May-24	Temperature	(°C)	Continuous during discharge	100%	May-24	21.8	26.0	31.2	**35**	**37.5**	**No**	

POINT 23 **Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wyee Bay marked and shown as EPA ID 23 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Monthly during discharge	1	7/05/2024	0.24	0.24	0.24				
May-24	Ammonia	(mg/L)	Monthly during discharge	1	7/05/2024	0.072	0.072	0.072				
May-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/05/2024	<0.001	<0.001	<0.001				
May-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/05/2024	0.005	0.005	0.005				
May-24	Cadmium	(mg/L)	Monthly during discharge	1	7/05/2024	<0.0001	<0.0001	<0.0001				
May-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/05/2024	<0.005	<0.005	<0.005				
May-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/05/2024	0.008	0.008	0.008				
May-24	Copper	(mg/L)	Monthly during discharge	1	7/05/2024	0.002	0.002	0.002				
May-24	Iron	(mg/L)	Monthly during discharge	1	7/05/2024	0.540	0.540	0.540				
May-24	Lead	(mg/L)	Monthly during discharge	1	7/05/2024	<0.001	<0.001	<0.001				
May-24	Manganese	(mg/L)	Monthly during discharge	1	7/05/2024	0.0210	0.0210	0.0210				
May-24	Nickel	(mg/L)	Monthly during discharge	1	7/05/2024	0.001	0.001	0.001				
May-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/05/2024	0.058	0.058	0.058				
May-24	Nitrogen	(mg/L)	Monthly during discharge	1	7/05/2024	0.40	0.40	0.40				
May-24	pH	pH	Monthly during discharge	1	7/05/2024	8.35	8.35	8.35		**6.5 - 9.5**	**No**	
May-24	Phosphorus	(mg/L)	Monthly during discharge	1	7/05/2024	0.07	0.07	0.07				
May-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/05/2024	0.02	0.02	0.02				
May-24	Selenium	(mg/L)	Monthly during discharge	1	7/05/2024	0.011	0.011	0.011				
May-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/05/2024	0.3	0.3	0.3				
May-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/05/2024	20	20	20		**50**	**No**	
May-24	Vanadium	(mg/L)	Monthly during discharge	1	7/05/2024	0.03	0.03	0.03				
May-24	Zinc	(mg/L)	Monthly during discharge	1	7/05/2024	0.037	0.037	0.037				

POINT 24 Discharge of seepage water from the ash dam rehabilitation area to Mannering Bay marked and shown as EPA ID 24 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Ammonia	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Cadmium	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Copper	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Iron	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Lead	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Manganese	(mg/L)	Monthly during discharge	1	7/05/2024				No			No discharge from EPA Point 24 during May 2024
May-24	Nickel	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Nitrogen	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	pH	pH	Monthly during discharge	1	7/05/2024				No	6.5 - 9.5	No	
May-24	Phosphorus	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Selenium	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/05/2024				No	50	No	
May-24	Vanadium	(mg/L)	Monthly during discharge	1	7/05/2024				No			
May-24	Zinc	(mg/L)	Monthly during discharge	1	7/05/2024				No			

POINT 25 Discharge of over boarded water from the ash dam to Mannering Bay marked and shown as EPA ID 25 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Discharge (yes/no)	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.03	3.3	57	Yes			
May-24	Ammonia	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.005	0.2	0.3	Yes			
May-24	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.001	<0.001	<0.001	Yes			
May-24	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.004	0.008	0.035	Yes			
May-24	Cadmium	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.0001	0.000078	0.0012	Yes			
May-24	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.005	0.0026	0.01	Yes			
May-24	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.005	0.034	0.087	Yes			
May-24	Copper	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.0005	0.0038	0.05	Yes			
May-24	Iron	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.11	3	48	Yes			
May-24	Lead	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.001	0.0017	0.03	Yes			
May-24	Manganese	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.005	0.1	1.2	Yes			
May-24	Nickel	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.001	0.0021	0.037	Yes			
May-24	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<0.005	0.1	0.29	Yes			
May-24	Nitrogen	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.3	0.6	0.9	Yes			
May-24	pH	pH	Daily for any discharge >2 hrs	30	May 2024	7.03	8.90	9.33	Yes	6.5 - 9.5		
May-24	Phosphorus	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.06	0.3	3.5	Yes			
May-24	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.009	0.1	0.11	Yes			
May-24	Selenium	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.012	0.034	0.071	Yes			
May-24	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.2	0.5	0.9	Yes			TSS non-compliances on 14/5 and 19/5. Suspected to be associated
May-24	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	<5	767	12000	No	50		with sample contamination due to difficult sampling location. Results
May-24	Vanadium	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.028	0.12	0.91	Yes			after 19/5 all below 18mg/L.
May-24	Zinc	(mg/L)	Daily for any discharge >2 hrs	30	May 2024	0.004	0.059	0.78	Yes			

POINT 30 **Groundwater quality monitoring bore marked and shown as EPA ID 30 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Quarterly									
May-24	Ammonia	(mg/L)	Quarterly									
May-24	Arsenic (III)	(mg/L)	Quarterly									
May-24	Arsenic (V)	(mg/L)	Quarterly									
May-24	Cadmium	(mg/L)	Quarterly									
May-24	Chromium (trivalent)	(mg/L)	Quarterly									
May-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-24	Copper	(mg/L)	Quarterly									
May-24	Electrical Conductivity	(us/cm)	Quarterly									
May-24	Iron	(mg/L)	Quarterly									
May-24	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2024
May-24	Magnesium	(mg/L)	Quarterly									
May-24	Manganese	(mg/L)	Quarterly									
May-24	Nickel	(mg/L)	Quarterly									
May-24	pH	pH	Quarterly									
May-24	Potassium	(mg/L)	Quarterly									
May-24	Selenium	(mg/L)	Quarterly									
May-24	Sodium	(mg/L)	Quarterly									
May-24	Standing Water Level	(m)	Quarterly									
May-24	Vanadium	(mg/L)	Quarterly									
May-24	Zinc	(mg/L)	Quarterly									

POINT 31 **Groundwater quality monitoring bore marked and shown as EPA ID 31 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Quarterly									
May-24	Ammonia	(mg/L)	Quarterly									
May-24	Arsenic (III)	(mg/L)	Quarterly									
May-24	Arsenic (V)	(mg/L)	Quarterly									
May-24	Cadmium	(mg/L)	Quarterly									
May-24	Chromium (trivalent)	(mg/L)	Quarterly									
May-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-24	Copper	(mg/L)	Quarterly									
May-24	Electrical Conductivity	(us/cm)	Quarterly									
May-24	Iron	(mg/L)	Quarterly									
May-24	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2024
May-24	Magnesium	(mg/L)	Quarterly									
May-24	Manganese	(mg/L)	Quarterly									
May-24	Nickel	(mg/L)	Quarterly									
May-24	pH	pH	Quarterly									
May-24	Potassium	(mg/L)	Quarterly									
May-24	Selenium	(mg/L)	Quarterly									
May-24	Sodium	(mg/L)	Quarterly									
May-24	Standing Water Level	(m)	Quarterly									
May-24	Vanadium	(mg/L)	Quarterly									
May-24	Zinc	(mg/L)	Quarterly									

POINT 32 **Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Quarterly									
May-24	Ammonia	(mg/L)	Quarterly									
May-24	Arsenic (III)	(mg/L)	Quarterly									
May-24	Arsenic (V)	(mg/L)	Quarterly									
May-24	Cadmium	(mg/L)	Quarterly									
May-24	Chromium (trivalent)	(mg/L)	Quarterly									
May-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-24	Copper	(mg/L)	Quarterly									
May-24	Electrical Conductivity	(us/cm)	Quarterly									
May-24	Iron	(mg/L)	Quarterly									
May-24	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2024
May-24	Magnesium	(mg/L)	Quarterly									
May-24	Manganese	(mg/L)	Quarterly									
May-24	Nickel	(mg/L)	Quarterly									
May-24	pH	pH	Quarterly									
May-24	Potassium	(mg/L)	Quarterly									
May-24	Selenium	(mg/L)	Quarterly									
May-24	Sodium	(mg/L)	Quarterly									
May-24	Standing Water Level	(m)	Quarterly									
May-24	Vanadium	(mg/L)	Quarterly									
May-24	Zinc	(mg/L)	Quarterly									

POINT 33 **Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

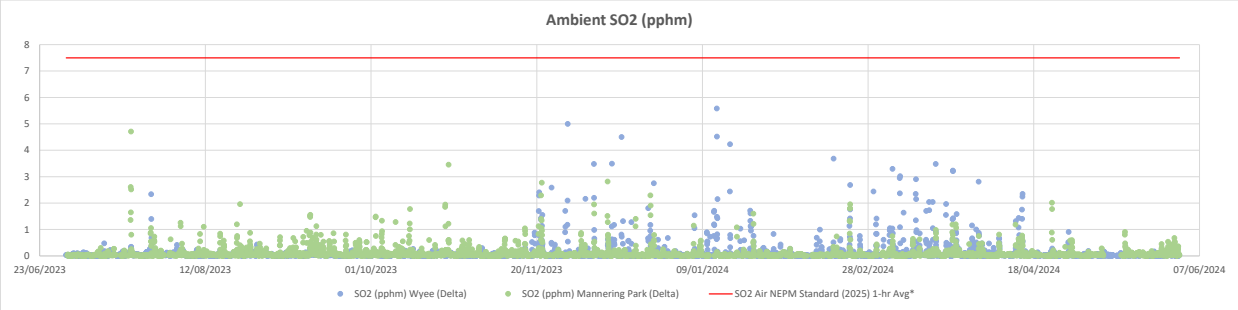
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Quarterly									
May-24	Ammonia	(mg/L)	Quarterly									
May-24	Arsenic (III)	(mg/L)	Quarterly									
May-24	Arsenic (V)	(mg/L)	Quarterly									
May-24	Cadmium	(mg/L)	Quarterly									
May-24	Chromium (trivalent)	(mg/L)	Quarterly									
May-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-24	Copper	(mg/L)	Quarterly									
May-24	Electrical Conductivity	(us/cm)	Quarterly									
May-24	Iron	(mg/L)	Quarterly									
May-24	Lead	(mg/L)	Quarterly									Next sample scheduled for July 2024
May-24	Magnesium	(mg/L)	Quarterly									
May-24	Manganese	(mg/L)	Quarterly									
May-24	Nickel	(mg/L)	Quarterly									
May-24	pH	pH	Quarterly									
May-24	Potassium	(mg/L)	Quarterly									
May-24	Selenium	(mg/L)	Quarterly									
May-24	Sodium	(mg/L)	Quarterly									
May-24	Standing Water Level	(m)	Quarterly									
May-24	Vanadium	(mg/L)	Quarterly									
May-24	Zinc	(mg/L)	Quarterly									

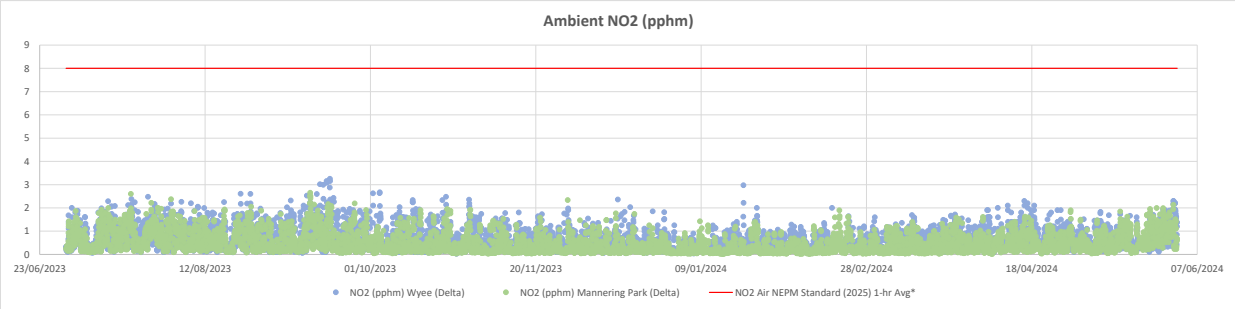
POINT 34 **Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).**

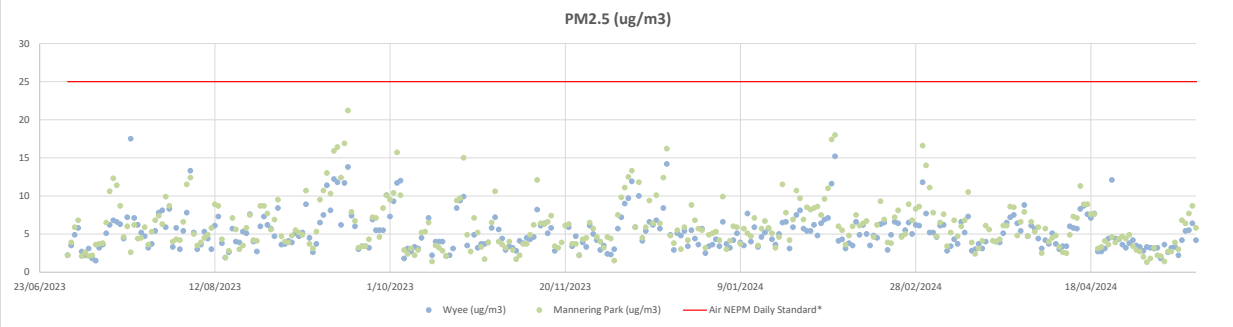
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
May-24	Aluminium	(mg/L)	Quarterly									
May-24	Ammonia	(mg/L)	Quarterly									
May-24	Arsenic (III)	(mg/L)	Quarterly									
May-24	Arsenic (V)	(mg/L)	Quarterly									
May-24	Cadmium	(mg/L)	Quarterly									
May-24	Chromium (trivalent)	(mg/L)	Quarterly									
May-24	Chromium (VI) Compounds	(mg/L)	Quarterly									
May-24	Copper	(mg/L)	Quarterly									
May-24	Electrical Conductivity	(us/cm)	Quarterly									
May-24	Iron	(mg/L)	Quarterly									Next sample scheduled for July 2024
May-24	Lead	(mg/L)	Quarterly									
May-24	Magnesium	(mg/L)	Quarterly									
May-24	Manganese	(mg/L)	Quarterly									
May-24	Nickel	(mg/L)	Quarterly									
May-24	pH	pH	Quarterly									
May-24	Potassium	(mg/L)	Quarterly									
May-24	Selenium	(mg/L)	Quarterly									
May-24	Sodium	(mg/L)	Quarterly									
May-24	Standing Water Level	(m)	Quarterly									
May-24	Vanadium	(mg/L)	Quarterly									
May-24	Zinc	(mg/L)	Quarterly									

Ambient Air Quality Graphs

POINTS 16 & 35 **Meteorological and ambient air quality monitoring stations at Wyee & Mannering Park marked and shown as EPA ID 16 & EPA ID 35 respectively on The Plan.**







GENERAL COMMENTS

*For more information about the Australian Governments National Environment Protection (Ambient Air Quality) Measure (Air NEPM) visit <https://www.nepc.gov.au/nepms/ambient-air-quality>